



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

*[Handwritten signature]*

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,598	03/29/2004	Gerald H. Negley	5308-386	2681
7590	07/07/2006			
			EXAMINER	
			PHAM, LONG	
			ART UNIT	PAPER NUMBER
			2814	

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/811,598	NEGLEY, GERALD H.
	<b>Examiner</b>	<b>Art Unit</b>
	Long Pham	2814

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-34 and 47 is/are pending in the application.
  - 4a) Of the above claim(s) 3-14, 16-18, 22 and 26-34 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 1, 2, 15, 19-21, 23-25 and 47 is/are rejected.
- 7) Claim(s) \_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. ____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3 IDS</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: ____ .

## DETAILED ACTION

### *Election/Restrictions*

Applicant's election without traverse of claims 1, 2, 15, 19-21, 23-25, and 47 in the reply filed on 05/24/06 is acknowledged.

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 2, 15, 19, 20-21, 23-25, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wojnarowski et al. (US patent 6,483,196) in combination with Soules et al. (US patent 6,252,254).

With respect to claim 1, Wojnarowski et al. teach a semiconductor light emitting device comprising (see fig. 12 and related text):

A substrate 46 having a face;

A flexible film 44; and

A semiconductor light emitting element between the substrate and the flexible film and configured to emit light.

Wojnarowski et al. fail to teach that the flexible film includes an optical element.

Soules et al. teach an LED or laser diode in which an optical element or lens is formed over an LED to allow the focus or diffusion of emitting light. See figs. 1-3 and associated text.

It would have been obvious to one of ordinary skill in the art of making semiconductor devices to incorporate the teaching of Soules into the device of Wojnarowski et al. to achieve the above benefits.

With respect to claims 2 and 47, Wojnarowski et al. further teach the face includes a cavity therein, wherein the flexible film extends onto the face beyond the cavity, wherein the semiconductor light emitting element is in the cavity.

With respect to claims 15, 19, 20, and 23, Wojnarowski et al. in combination with Soules teach the flexible film includes an optical element and a light emitting element between the substrate and the flexible film and configured to emit light through the optical element but fail to teach forming the flexible film includes a plurality of optical elements and a plurality of light emitting elements between the flexible film and substrate.

However, It would have been obvious to one of ordinary skill in the art of making semiconductor devices to form a plurality of optical elements over the flexible film and a plurality of light emitting elements between the flexible film and substrate to increase device integration density.

Further with respect to claim 19, Wojnarowski et al. further teach the optical elements over the cavity.

With respect to claims 20 and 24, Wojnarowski et al. further teach a phosphor layer 42 on the flexible film between the optical elements and the light emitting elements.

With respect to claims 21 and 25, Wojnarowski et al. in combination with Soules appear to fail to teach using different phosphors for different light emitting elements.

However, the use of different phosphors in light emitting elements to produce different colors or red, blue, and green lights is well-known.

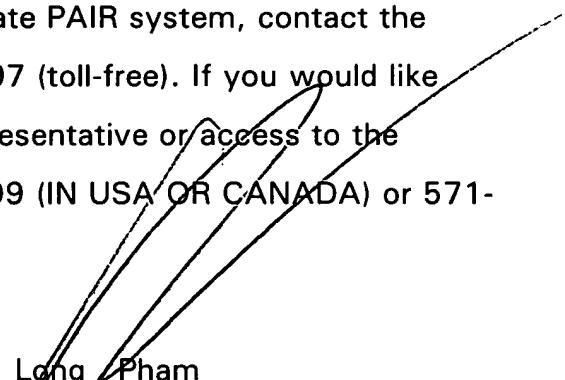
***Conclusion***

Art Unit: 2814

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long Pham whose telephone number is 571-272-1714. The examiner can normally be reached on Mon-Frid, 10am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Long Pham

Primary Examiner

Art Unit 2814

LP